

LEARNING ON MOOC ENVIRONMENT DESIGN

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ABSTRACT

This research aims to: 1) design learning environment on MOOC 2) evaluate and certify the suitability of learning environment on MOOC. The sample consisted of five experts by purposive sampling. The sample must have relevant experience at least three years in instructional design and educational technology on MOOC. The mean and standard deviation were used to analyze data.

The results showed that the design learning environment on MOOC is composed of 14 components as follow: 1) MOOC (Massive Open Online Course) 2) M: Massive 3) O: Open 4) O: Online 5) C: Course 6) x MOOC (Extended MOOC or Extension MOOC) 7) Video 8) Text 9) Discuss 10) Quiz 11) Learner Community 12) Online Resources 13) Convenience and 14) Accessible 2) The experts evaluated and certified the learning environment on MOOC. The overall suitability of components of learning environment on MOOC was rate as "Most"

KEYWORDS: Learning Environment, Teaching and Learning on Open Online & Massive Open Online Course

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INTRODUCTION

STATEMENT OF THE PROBLEMS

In today's world, the technology is advancing and developing rapidly. It makes the lives of human beings on technology in everyday life and sometimes in our knowledge that is embedded using and relying on technology. Equipment used in our daily life in the present plain was developed from advancements of technology until the familiar produce is what is used to facilitate many human. And we use technology to facilitate of the daily lives, thus resulting in the teaching and learning relies need on the technology and facilities to provide teaching and learning of the highest performance. But the current issue is access to tools and Internet communication which cause gaps in learning. The help or support teaching and learning performance is to learn through online networks: in this popular instruction, for example, Web-based instruction, Web-based training, Mobile Learning and MOOC, etc.

MOOC, or Massive Open Online Course is taught through an online education system, on the Open (Open Education) to get access to an unlimited amount for media Learning Open (Open Educational Resource) or learning a new media production, tech learning environment and instrument in organizing learning activities with the measurement and evaluation of learning. The teaching and learning model MOOC can be used in teaching and learning at leisure in learning system and learning system the key to the MOOC is accessibility, interaction and Liberty (Freedom). The MOOC development system is to promote lifelong learning of the community. Being able to learn on their own and using knowledge then it is necessary, which has not been done before. If we can do to promote pilot MOOC for learning community, it encourages learning and development Thai people as well as social standing Thailand. (Ministry of Information and Communications, 2016). One of the key elements of open

teaching and learning online to the successful using of media such as video, discussing, the use of social media and collaborative learning.

OBJECTIVES

To design an online classroom environment on the Massive Open Online Course (MOOC)

- Identify the components resulting of the design of online classroom environment on the Massive Open Online Course (MOOC)
- Inform the components resulting of the design of online classroom environment on the Massive Open Online Course (MOOC)
- Design the environment Massive Open Online Course (MOOC)

To evaluate and certify the design of environment model on the Massive Open Online Course (MOOC).

SCOPE OF THE STUDY

Population is the experts of instructional system design and specialists of teaching system on MOOC.

Sample consists of 5 experts by purposive selection. The sample, the experts, must have relevant experience with at least three years in instructional system design and specialists of teaching system on MOOC.

RESEARCH METHODOLOGY

Faze 1 the Design of Learning on MOOC Environment

Analyze and synthesize the information about the environment on MOOC contains the principle elements of teaching and learning MOOC and theories to be used as the basis for determining the composition of the condition on MOOC.

- Identify the components and characteristics of the design elements that affect the classroom environment on MOOC.
- Offer the MOOC environment to advisors to review and edit.
- A draft environment on MOOC.
- Offer a draft model of development environment MOOC to 5 experts to assess and suggest.

Phase 2 Evaluate and Certify the Design of Learning on MOOC Environment

Design a tool for development evaluation form of online classroom environments on MOOC and to advisor to determine, edit suggest.

Offer the development model of the MOOC environment to 5 experts to evaluate and certify.

THE RESULTS OF THE STUDY

Researchers study, analyze, and synthesize information about development patterns of classroom environment on MOOC containing of the concept principles and elements of teaching and learning online. The researcher synthesize elements of each component of development storage format on the online classroom environment of MOOC and collect

information from the assessments of 5 experts as follows:

Phase 1: The Researcher Has Taken the Form of a Design Environment on MOOC and Data Synthesis Design Environment in the Classroom to 5 Experts to Consider and Comment on Below Photos

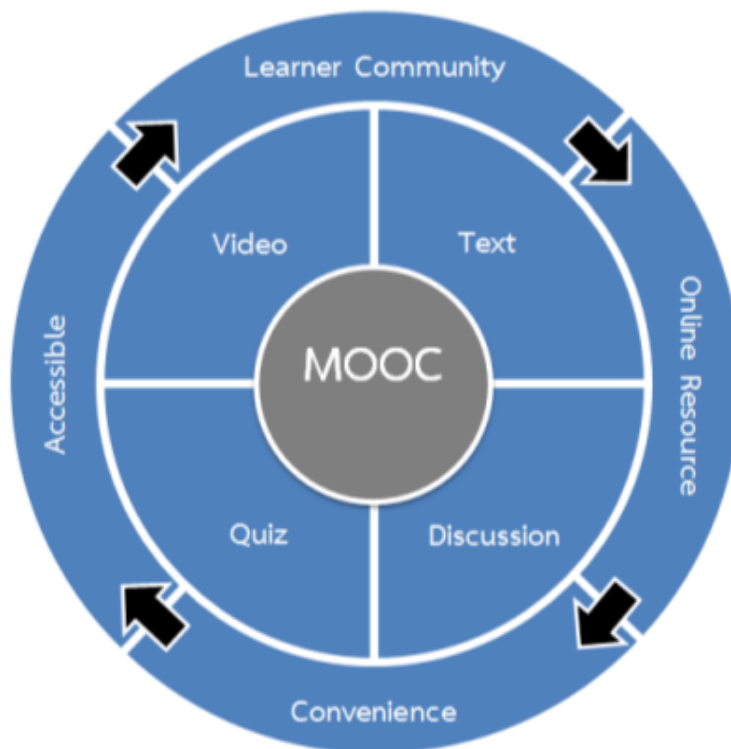


Figure 1: Learning on MOOC Environment Design

MOOC DEFINITION

MOOC (Massive Open Online Course) is teaching and learning open online which has evolved from OCW (Open Courseware) and OER (Open Educational Resources). It is a course that many people can access to learn at the same time through the online system with freely unlimited time and place and which aims Instruction media Measurement and evaluation criteria. It is clearly divided into two categories cMOOC and xMOOC.

cMOOC (Connectivist MOOC) is based on principles from connectivist pedagogy indicating that material should be aggregated (rather than pre-selected), remixable, re-purposable, and feeding forward (i.e. evolving materials should be targeted at future learning). cMOOC instructional design approaches attempt to connect learners to each other to answer questions and/or collaborate on joint projects. This may include emphasizing collaborative development of the MOOC. Ravenscroft claimed that connectivist MOOCs better support collaborative dialogue and knowledge building.

xMOOC (Extended MOOC or Extension MOOC) is a much more typically traditional course structure with a clearly specified syllabus of recorded lectures and self-test problems. They employ elements of the original MOOC, but are, in effect, branded IT platforms that offer content distribution partnerships to institutions. The instructor is the expert provider of knowledge, and student interactions are usually limited to asking for assistance and advising each other on difficult points.

- **M: Massive** means teaching and learning with enormously huge people. Or the interaction between the learner and the learner. Learners with tutors learners with tutors.
- **O: Open** is free. Students can access to or be able to learn the basic courses all the time when they need.
- **O: Online** is learning online any place or any time, which connected with signs of the internet or online system.
- **C: Course** is content knowledge subject which aims to teaching and learning, materials and evaluation criteria to measure.

The Main Elements of the MOOC

Video is the animation in the form of electronic files offered on MOOC as follows:

- The instructor lecture switch content in HD, 16: 9
- The narrative content writing on the chalkboard / Monitor
- Talking or discussion between the instructor / lecturer
- Other format that can be imported course content meeting learning objectives and attracting the attention of students.

The technique details are as follows:

- The contents of the video can be designed consecutive weekly (Linear Progression) or the content independent for learners to select course subject whatever they like.
- The length of the video is not more than 10 minutes per clip
- The content is linked to interesting topics in each chapter. Meet the learning objectives.
- The lectures which the students can read and can download on the file text formats SubRip (.srt)
- A brief description of the video content.

Text is a letter built on the lessons taught by the designer who specializes in letters design. The letters must be clear, easy to read, accessible to students who are the target audience. The design must taken into the form of letters: style, font, size, pitch and posing letters. The letters traits for creating on-line classes are Arial, Tahoma and MS Sans Serif font and color. Colors influence the mood of the meaning of the depictions and raise awareness of the human mind. Each color feels the different mood. Some colors give a feeling of peace. Some colors present exciting and violence. Color is a very important factor to design online lesson. Therefore, the colors represent the different colors of the emotional expression: liveliness or grief. The format of the color that the human eyes see can be divided into three groups (Kandinsky, 1988):

- Warm Colors are colors that represent happiness, comfort, warm and attraction. There are colors that helps to recover from stagnation and to lively.
- Cool Colors represent politeness and modesty. These are colors that people like most and influence them in a long distance.

- Neutral Colors include black, white, gray and brown. Neutral colors can be mixed with other colors to be neutral colors.

Discuss is the teaching part of the overall discussion groups on various issues related lessons for the purpose of brainstorming or dissemination of information that is useful to other learners. Or the instructor will build on the questions to the students to discuss together in a certain period of instruction. And a score for evaluation will be made after teaching and learning.

Quiz is a test or examination for students who study in that particular course. The quiz must be reasonable and consistent with the purpose of learning credits with making measurement tools, and evaluation of learning covering as follows:

- In case of a course measured and evaluated using the test multiple choice selections to test must be issued not less than 100 messages per batch not fewer than three copies per course (for a course of 45 hours of class time and decreasing parts).
- In case of course measurement and evaluation with other ways it is necessary to make tools and identify the evaluation criteria depending on the discretion of the directors to consider.

MOOC Environment

Learner Community is community learning to make a motion that is not what happens in a regular classroom. There is encouraging interaction between the learner and the learner or learners with tutors. The students can comment the issues of the others students who study together or answer the questions which the teachers or the students ask in a chat room.

Online Resources are open resources, news and information. The content of the lessons, or what additional knowledge to students who attend classes in an open online lesson by instructor shall enter the details they need to study more into their lessons, students may refer to it in the lesson generally lead 21,659 media. Internet reuse may be vulnerable to piracy, and the need to examine the media usage rights that the owners of the media permission to use it on any level. For example, the image search from google that advertises it as Creative Commons (Creative Commons: CC) must be applied regardless of the license of Creative Commons, distribution, and use of information/media, either through the image, the audio, data without reference to the original copyright owner. Creative Commons is a nonprofit organization which established in order to expand the scope of the use of various media. Creative Commons license enables copyright owners can provide some or all of the rights to the public. While still other rights reserved by using various licenses, including as public domain or open license plus many order to avoid copyright issues to share information technology. Creative Commons license can be divided into six formats, as follows:

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Convenience is convenient access to open online teaching. This step is the development and design of the course is for the management of this segment. So that learners can access responsible efficiency in teaching and learning.

Accessible is a creating system of open online teaching and learning to all learners to access both those who are visually impaired or the elderly ears; barriers to access existing data, many in the world of communication in the digital age must reach the lessons that have been created by the need to understand the principles of design. Currently, the site inspection, existing reporting and monitoring results along with suggestions for improving the site accessibility and site Design (Design) to structure (Layout Design) along with a team of experts to investigate are held. A website for the audit is <http://validator.w3.org/> and results of the review will be up to the AA level.

Phase 2: The Evaluation and Certifying Learning on MOOC Environment Design

From assessing and certifying the development of the online classroom environment of MOOC expert, the results were as follows:

Table 1: The Evaluation and Certifying Learning on MOOC Environment Design

Component of Learning On MOOC Environment Design		Mean	Standard Deviation	Suitability
1.	MOOC (Massive Open Online Course)	5.00	0	Most
2.	M: Massive	5.00	0	Most
3.	O: Open	5.00	0	Most
4.	O: Online	5.00	0	Most
5.	C: Course	5.00	0	Most
6.	xMOOC (Extended MOOC or Extension MOOC)	5.00	0	Most
7.	Video	5.00	0	Most
8.	Text	5.00	0	Most
9.	Discuss	5.00	0	Most
10.	Quiz	5.00	0	Most
11.	Learner Community	5.00	0	Most
12.	Online Resource	5.00	0	Most
13.	Convenience	5.00	0	Most
14.	Accessible	5.00	0	Most
Total		5.00	0	Most

Table 1 Displayed the evaluation and certifying learning on MOOC Environment Design that the experts agreed with the 14 components of learning on MOOC Environment that they were suitable with mean of 5.00 and at the most suitability every component.

GENERAL SUGGESTIONS

The results above show that the environment in the classroom, open online (MOOC) consists of 14 elements, which can be helpful to those who want an environment on the open online classroom (MOOC), must provide a curriculum that focuses on the students. Learn the process of working together as a group. Critical analysis is discussed in the group and is responding directly to the main elements of the MOOC into components.

CONCLUSIONS

SUGGESTIONS FOR FURTHER RESEARCH

Study other variables that contribute to learning, such as the emergence of critical thinking, analytical thinking and building knowledge by themselves.

Learn more targets such vulnerable groups, students outside the system, in Thailand.

Study negative effect on the unsucced instruction, as help the students in teaching and learning open online (Massive Open Online Course) to study until the end of the course not stop the halfway.

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